

# HALF-RACK

## AMPLIFIER SPEC SHEET



MODEL		CHANNEL COUNT	WATTS PER CHANNEL
CS 124		4 CHANNELS	120 WATTS
AUDIO SPEC	Output Power	4 x 120 WRMS @ 4Ω, 8Ω, 70V, 100V (60W at 2Ω)	
	Inputs	Analog: 4 Balanced analog Inputs with user-selectable 26dB, 34dB, and mic level input sensitivity 4 Unbalanced RCA inputs with user-selectable 26dB and 34dB input sensitivity ***Note - Balanced and Unbalanced (RCA) inputs share the same analog input channel	
	THD+N	0.1% (20Hz to 20kHz)	
	Frequency Response	+/- 0.5 dB @ 4Ω, 8Ω, 70V, 100V, -2.5dB @ 20kHz at 2Ω	
	Signal to Noise Level	102dB (20Hz to 20kHz referenced to 8Ω)	
	Crosstalk	70dB (20Hz to 20kHz)	
	I/O Latency	1 ms DSP latency under any condition	
	Load Impedance	LowZ down to 2 ohms, 70V direct, and 100V Direct per channel	
DSP	Output Classification	Class D with Proprietary Smart Power Bridge Technology allowing bridged output functionality without sacrificing an amplifier channel	
	DC Offset	+/- 3mV	
	DSP Architecture	Analog Devices Sigma 96kHz DSP Processor with 32-bit Core with Sample Rate Converters	
	Input Matrix	Routable matrix; any input to any output with primary and secondary input priority	
	Crossovers	Up to 48 dB/Octave IIR Filters (Linkwitz Riley and Butterworth) and Bessel	
	Parametric EQ	8 Band Parametric EQ per channel	
	Output Delay	100ms per channel	
	Output Protection	DC, VHF, and AC Mains Protection, Over-temp and Current Limiter, fan fault detection	
CONTROL, MONITORING, NETWORK	Limiting	Peak Voltage and RMS Voltage	
	Load Monitoring	Realtime Load Monitoring and Pilot Tone Detection from Internal or External Sources	
	Network Connectivity	Wi-Fi or 100MB Ethernet with PoE or Built in Wi-Fi Access Point (IEEE 802.11 b/g/n WPA, WPA2, WEP)	
	Operating Systems	MAC, iOS, PC, Android	
	User Interface	Web Browser User Interface, 3rd Party API control, Cloud control, or SharkWare	
	Event Reporting	User Downloadable and Viewable Event and Fault log - POE allows for enhanced error monitoring	
	External I/O	External I/O In: Toggles Remote On/Off   External I/O Out: Indicates Amplifier Health 4 general-purpose Input and Output pins for general input Triggering and output statuses: Coming soon	
	Cloud IoT	AWS Cloud-based IoT functionality	
OPS DATA	AC Mains	100VAC - 240VAC +/- 15% 50Hz or 60Hz	
	Temperature	Storage: -20°C to 90° C - Operating: 0°C to 60° C	
	Power Supply	Universal Switch Mode Power Supply	
	Safety Approvals	UL, CSA, CE, ETL, FCC, CCC, KETI, NOM, ROHS, PSE	
PHYSICAL SPEC	Dimensions (L x W x H)	Product: 11.82" x 8.58" x 1.71" (300.11mm x 278mm x 43.5mm) Shipping: 18" x 11" x 2.75" (457.2mm x 300mm x 69.85mm)	
	Weight	7lbs / 3.1kg   Shipping: Coming Soon	
	Cooling	Front to Rear Variable Fan Speed Cooling   Fan Noise at idle is 50dB @1m Fan Noise at 50% is 57dB @1m   Fan Noise at full speed is 63dB @1m	
	Connectors	Analog Input: 3 pin Amphenol Anytek, Output: 2 pin Amphenol Anytek External IO: 8 pin Amphenol Anytek, Power in: IEC, Ethernet RJ45 In for Control, and RCA input	

LEA Professional reserves the right to make any necessary changes to the specification. The LEA Professional Warranty is 6 years from date of Purchase and product registration in the United States, and 5 years internationally.



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